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Draft
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23 July 1963

Comments re recommendation made by the President's Foreign Intelligence Advisory Board dated 8 March 1963 together with the DCI's reply of 15 April 1963 -- CIA Organization for S&T Intelligence

1. PFIAB Paragraph 13 - Strengthening Technical Capabilities.

The Board recommends that top priority be given to the creation, organization and exploitation of new resources of science and technology for use in intelligence activities.

My comment
It is noted that the emphasis here is on "use in intelligence activities". It does not limit the emphasis to collection nor is there any other limitation. The emphasis is further on creation, organization and exploitation.

DCI's reply
The Director's response states: "I have given top priority to the creation, organization and exploitation of new resources of science and technology for use in intelligence activities." He further states that in a major reorganization of the Agency's S&T activities he created a new Deputy Directorate for Research with three new offices under it - OSA, OEL and ORD. He further points out that he considered the addition to the DD/R of OSI and TSD but suspended action for a period of observation based on strong staff advice. In his April comment he said that "the period of observation has now elapsed and I will move ahead with additional changes, starting with an intra-agency board

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for staff direction of the scientific and technical effort and giving the DD/R expanded responsibilities" ala paragraphs b. and c. in the recommendation.

JAM
Comment
Comment - To call OSA a new office may be misleading depending on the context of the word "new". Insofar as the additional changes which have followed the period of observation, I am aware of only the new internal board under General Carter's chairmanship and the establishment of the Kinzel board which is only partly begun. I do not recall anything that could be identified as expanded DD/R responsibilities.

2. PFIAB - To move ahead with an adequate program the Board proposes the following:

(a) The creation of an organization for R&D which will couple research (basic science) done outside the intelligence community both overt and covert with development and engineering conducted within intelligence agencies, particularly the CIA. Institutional research, academic and industrial, must be joined to mission-oriented research.

JAM
Comment - I do not see that one can clearly identify any more than a partial compliance to this recommendation. True, the formation of the DD/R, and particularly the ORD concept, has

some strengthening effect on our capability to do this, but I don't believe it is significantly different than was the situation on 8 March when the recommendation was made and the Board was already familiar with the concept of the DD/R as it existed at that time. It may be argued that the Carter Committee and the Kinzel Committee contribute to this objective.

DCI response - This particular point is melded into the general statement quoted above. 69. 1

PFIAB (b) The installation of an administrative arrangement in the CIA whereby the whole spectrum of modern science and technology can be brought into contact with major programs and projects of the Agency. The present fragmentation and compartmentation of research and development in CIA severely inhibits this function. //

Comment - No such administrative arrangement has been installed in anything like a recognizable form. The spectrum of modern science and technology does have some brush with the major programs and projects of the Agency in that the DD/R does provide close scrutiny to the systems and devices and scientific principles that are involved in optics, photography and electronic sensors. To date all are limited only to the collection problem. Further, NPIC is in contact with that portion of the science

spectrum where advanced equipments and techniques aid in the PI processes. Similarly, COMMO has a limited brush with the small specialized portion that affects electronic communications capabilities and the ADPS in conjunction with OCR maintains contact with that portion of science and technology having to do with information, storage retrieval, language translation and other extensions of human assets through the medium of computers and other mechanical or electronic devices. In still another area TSD is in contact with selected forefronts of both the physical and life sciences, primarily as an extension of human resources (agent) collection capabilities. It is difficult to assess just how much is done, the extent to which these efforts overlap and the magnitude of that portion of the "whole spectrum" where we have little or no contact at all. In brief, there is no "administrative arrangement" in the CIA whereby this can be done unless one will say that the Committees will perform this function. I do not believe, however, that these Committees could be considered an "administrative arrangement". The "fragmentation and compartmentation" cited in the 8 March report has not to my knowledge materially changed, thus the severe inhibition cited at that time must still exist. It can also be observed that even within the several items cited, the emphasis is still almost entirely on collection problems and

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information handling problems. There are ^{not} to my knowledge any examination of science and technology that may be specifically geared to other aspects of the intelligence mission such as various covert action, counter-intelligence, psychological warfare or even for that matter any real research aimed at basic improvements in intelligence analytical methods, data handling, machine inputs, etc. In these latter areas where it appears we are doing something, it in fact is not much more than a liaison with the available hardwares that are getting developed and offered for sale by industry.

(c) PFIAB - The clear vesting of these broadened responsibilities in the top technical official of the Central Intelligence Agency, operating at the level of Deputy Director. (Recasting and extending the CIA's present Office of Research may accomplish this. If it does not, alternative administrative arrangements must be devised.) This technical official as we conceive his responsibilities, should have reporting to him the following groups, each managed by a competent technical leader:

- (1) Technical Requirements Group....
- (2) Systems Engineering Group....
- (3) Development Group....
- (4) Field Engineering Services Group....
- (5) Behavioral Sciences Group....

my Comment - On this broad sweeping recommendation where all of these activities would report to a single top technical official relative to the whole spectrum of Agency potential relationship to the S&T field, there has been nothing done which remotely resembles this since 8 March with the possible exception of the Technical Requirements Division of the Collection Guidance Staff now being organized under the DD/I. This staff, of course, does not represent the whole Agency need, only the DD/I's, and it does not in an administrative sense report to the DD/R or any other "senior technical official" though its needs are made known to the DD/R. I believe it could be considered a partial step in the direction pointed by the FIAB.

Answer
DCI Comment - The Director's response specifically cites the above recommendation and the ~~creation~~ of the five groups mentioned and comments that these would "require extensive re-organization throughout the Agency even beyond that contemplated above. It will be given comprehensive study."

my Comment - I am unable to say categorically that this recommendation has or has not been given comprehensive study. In some oblique way it might be reasoned that Dr. Kinzel is studying this, but I am not aware of any effort I would

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categorize as "comprehensive study". I presume, therefore, that the same response will have to be given again.

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(d) PFIAB - Formation of a few special research and development groups that may be part of a natural science division, probably coordinated with the behavioral sciences group, that cross-connects various classic disciplines in ways of primary importance to intelligence missions. Thus, studies of camouflage in plant, bird and animal systems (where it seems to be a highly developed element in survival) coupled with physical optics, radiation and spectroscopy, might reveal new methods of both disclosure and concealment. //

7 Comment - I think it could be said that we are beginning to scratch the surface in a partial aspect of this recommendation. Some of our work at HTN and the new proposal we are now considering is a beginning.

(e) // PFIAB - Actions within the Department of Defense:
(1) to emphasize research in advanced sensing systems, advanced photographic systems, and in other sophisticated areas of intelligence gathering, and (2) to strengthen advanced research in the signals intelligence field, particularly to prepare for the environment in which signals intelligence must function over the course of the next ten years. //

Comment - I believe it can be realistically stated that *m/*considerable stir has been developed in the DOD consistent with this recommendation. The pains and strains and thrashing around of the NRO are indicative of continued effort if not actual progress, and similarly the gradual evolution of National ELINT plans, and COMINT plans are similarly indicative of reaction in the recommended direction.

DCI response - The 15 April DCI response treated the two above recommendations as follows: "The objectives of cross-connecting the various classic disciplines in ways of primary importance to intelligence missions, the emphasis on advanced sensing and photographic systems and other sophisticated areas of intelligence gathering, and advanced research in signals intelligence are all ones of great importance and will be pursued vigorously."

m/ Comment - For our new status report, I think the required separate reporting on the NRO will cover portions of this and perhaps some statement from Mr. Miller concerning the National SIGINT program can show some progress on these two recommendations.

FIAB 3. The final observation of the FIAB 8 March paper was: "The importance of intelligence warrants a major effort to draw fully upon the most advanced science and the best scientific brains in the nation. Our scientific intelligence should be so

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sophisticated and advanced that it will be beyond the capabilities, if not the imagination, of our adversaries.

25X1 DCI response - The DCI's 15 April response cited two panels within the above context which included one on audio surveillance and the [] Panel on Chinese nuclear energy capabilities, and also mentioned that a top level scientific advisory board was being established. At this time we could in addition to these cite the Purcell Panel and report that 25X1 [] has been engaged as Chairman of the yet to be named members of the Scientific Advisory Board.

General - The entire tenor and essence of the FIAB report is so predominantly concerned with the whole spectrum of intelligence, the whole spectrum of science and technology and organizational/administrative developments geared to the large comprehensive concept that it is very difficult to cite specific commendable things which have been done by our various components without appearing to beg the question. In deed, I feel that attempting to rationalize the required progress report by the citing of specific instances in the absence of organizational or administrative program since 8 May is simply paramount to telling the Board that its recommendations are not

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generally acceptable. If that is the message to be conveyed it could be much more directly and succinctly than all sorts of little fragmentary types of apologies.

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ACTION	DIRECT REPLY	PREPARE REPLY
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Remarks:

Attached is paper [] will

be discussing with you at 4:00 p.m. *Today*

[] has not had time to
read it over since dictating it to me.)

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23 Jul 63

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